

APPENDIX A

AGENDA FOR USEPA WORKSHOP ON LANDFILL BIOREACTORS

US EPA Workshop on Landfill Bioreactors
Hilton Crystal City Hotel, Arlington, VA
September 6 - 7, 2000
Agenda

Purpose and Scope: To assess the state-of-the practice of landfill bioreactors and to identify research needs.

Wednesday, September 6, 2000

9:00 AM - 9:10 AM	Welcome and Introductions - <i>John Martin, ORD/NRMRL</i>
9:10 AM - 9:35 AM	US EPA Office of Solid Waste - History and Need - <i>Robert Dellinger</i>
9:35 AM - 9:55 AM	US EPA Office of Water - Overview of the Landfills Effluent Limitations Guidelines - <i>Michael Ebner</i>
9:55 AM - 10:15 AM	US EPA Office of Air Quality Planning and Standards - MSW Landfill Clean Air Act Regulations and Bioreactor Operation Air Pollution Concerns - <i>Michele Laur</i>

10:15 AM - 10:30 AM BREAK

10:30 AM - 11:00 AM	US EPA Office of Research and Development - Research Directions - <i>Fran Kremer</i>
11:00 AM - 11:45 AM	State Regulatory Perspectives – <i>Robert Phaneuf, New York State Dept. of Environmental Conservation and Richard Watson, Delaware Solid Waste Authority</i>

11:45 AM - 1:00 PM LUNCH

	Session: Theory/Expected Benefits Moderator: <i>David Carson, US EPA</i>
1:00 PM - 2:00 PM	Theory/Expected Benefits and Types of Bioreactor Operational Techniques: Anaerobic and Semi-Aerobic - <i>John Pacey, EMCON</i>
2:00 PM - 2:10 PM	Economics Introduction - <i>Scott Palmer, US EPA</i>
2:10 PM - 2:30 PM	Modeled Economics of Landfill Bioreactors - <i>Gary Hater, Waste Management, Inc.</i>

2:30 PM - 2:45 PM BREAK

	Session: Case Studies - Performance Moderator: <i>David Carson, US EPA</i>
2:45 PM - 3:10 PM	Sandtown, DE - <i>Richard Watson, Delaware Solid Waste Authority</i>
3:10 PM - 3:35 PM	New River, FL - <i>Debra Reinhart, University of Central Florida</i>
3:35 PM - 4:00 PM	Yolo County, CA (EPA Project XL) - <i>Ramin Yazdani, Yolo County Dept. of Public Works</i>
4:00 PM - 4:25 PM	Worcester Co., MD - <i>Ken Kilmer, EA Engineering Science & Technology</i>
4:25 PM - 4:50 PM	Louisville, KY - <i>Roger Green and Gary Hater, Waste Management, Inc.</i>
4:50 PM - 5:15 PM	Williamson Co., TN - <i>Mark Hudgins, Environmental Control Systems, Inc. and Jo House, Civil and Environmental Consultants</i>

5:15 PM ADJOURN

Thursday, September 7, 2000

8:00 AM - 8:10 AM	Opening Comments - <i>John Martin, US EPA</i>
	Session: Design and Operational Issues Topics: Where/When to Employ, Design Options, including facultative, anaerobic / aerobic sequential designs, Operation <i>Discussion leaders listed below; discussion open to all</i>
8:10 AM - 9:30 AM	Discussion Leaders: <i>Debra Reinhart, University of Central Florida and John Pacey, EMCON</i>
9:30 AM - 9:45 AM	BREAK
	Session: Monitoring Goals Moderators: <i>Wendy Davis-Hoover, US EPA and Bill Mahaffey, Pelorus EnBiotech Corp.</i> Topics: What, When and Where do we need to monitor, What are the best methods <i>Discussion leaders listed below; discussion open to all</i>
9:45 AM - 10:30 AM	Air/Gas - Discussion Leaders: <i>Susan Thorneloe and Michele Laur, US EPA</i>
10:30 AM - 11:15 AM	Groundwater/Leachate - Discussion Leaders: <i>John Wilson and Michael Ebner, US EPA</i>
11:15 AM - 12:00 PM	Physical Stability - Discussion Leaders: <i>Robert Koerner, Geosynthetic Research Institute and Gregory Richardson, G. N. Richardson & Associates, Inc.</i>
12:00 PM - 1:00 PM	LUNCH
	Session: Monitoring Goals continued Moderators: <i>Wendy Davis-Hoover, US EPA and Bill Mahaffey, Pelorus EnBiotech Corp.</i> <i>Discussion leaders listed below; discussion open to all</i>
1:00 PM - 1:30 PM	Volume / Solids Degradation - Discussion Leaders: <i>John Novak, Virginia Tech and Morton Barlaz, NC State University</i>
1:30 PM - 2:00 PM	Microbial Aspects of Refuse Decomposition - Discussion Leaders: <i>Don Crawford, University of Idaho and Mary DeFlaun, Envirogen, Inc.</i>
	Session: Research Needs, Identification of Data Gaps for New Facilities and Retrofits, Remediation Topics: Monitoring, Operational design, e.g. water loading rates, stability, and Operational changes at facilities <i>Discussion leaders listed below; discussion open to all</i>
2:00 PM - 3:15 PM	Discussion Leaders: <i>David Carson, US EPA and Debra Reinhart, University of Central Florida</i>
3:15 PM - 3:30 PM	BREAK
	Session: Discussion on Landfill Regulations Topics: Regulations and Rule changes Needed Operate Bioreactors <i>Discussion leaders listed below; discussion open to all</i>
3:30 PM - 4:30 PM	Discussion Leaders: <i>Robert Dellinger and Dwight Hlustick, US EPA</i>
4:30 PM - 5:00 PM	Wrap-Up Session - <i>John Martin, US EPA</i>